

MEYCO® FIX FIRESHIELD 1350

Main characteristics (technical specifications)

Insulating cementitious mortar to reduce the impact of a 1350°C-fire on the concrete structure.

After a fire event this layer can be removed easily and a new layer sprayed

Can be washed: Low/medium/high pressure Can be painted:

Information on the composition

Modified Portland cement, specific aggregate, synthetic fibres, and additives (non toxic for environment)

Fire Test reports (cross the relevant boxes)

ISO (1050°C 2h 1160°C 4h) <input type="checkbox"/>	HC (1100°C, ref. EC1.1.2) <input type="checkbox"/>	HCM (1300°C, HC*1300/1100) <input type="checkbox"/>
RABT/ZTV (Germany) (1200°C) <input type="checkbox"/>	RWS (1350°C) <input type="checkbox"/>	Others : <input type="checkbox"/>

Characteristics of the tested samples, report number and possible comments:

TNO fire testing under RWS curve on 16 cm-thick concrete plates with thickness of Fix Fireshield 1350 from 40-55 mm (report 2001-CVB-R03026).
 With a 50 mm thickness the temperature reaches 180°C at the concrete interface after 2 hours.

Application procedures **Board** **Mortar**

- Manual or mechanised wet spraying, with or without steel wire mesh according to the support type and preparation. Addition of a non alkaline activator Meyco SA160 at nozzle. Spraying robot with laser thickness control for specific applications (if required).
- Poured in-situ, self-levelling character

Present application field

Any structure subject to pin-point rough fires (petrochemical refinery tanks, hydrocarbide storage, fire brigades training fire areas...)

Possible use in tunnels	Civil engineering works references
<p>Tunnel or cut-and-cover sidewalls, vault or ceiling</p> <p>Protection of networks, cables, technical ducts, covers of distribution chambers</p>	<p>Evacuation gallery and portal sections of Alp Transit project Weston Super Mare, UK Road Tunnel of Söderleds, Stockholm, Sweden</p> <p>A40, Chamoise – North Tunnel, France</p>
Physical and thermal data	
<p><u>Reaction to fire</u> (French/European classification): A1</p> <p><u>Main thermal data: (at 20°C and possibly variation with temperature)</u></p> <ul style="list-style-type: none"> • Thermal conductivity λ (W.m⁻¹.K⁻¹) = 0.41 • 2 out of the 4 following values <ul style="list-style-type: none"> ○ Specific heat c (J. kg⁻¹.K⁻¹) = 830 ○ Density ρ (kg/m³) = 1200/1800 ○ Volumic specific heat C (J.m⁻³.K⁻¹) = ρc= ○ Diffusivity a (en m².s⁻¹) = $\lambda/\rho c$ = • Resulting emissivity (adimensionnall) : ϵ_{res} = 	<p><u>Other thermal data :</u> Reflection coefficient (adimensionnall): or Absorption coefficient (adimensionnall): 0.91</p> <p><u>Main mechanical data:</u> E modulus (MPa)= 7900 Compressive strength (MPa)=15 à 18 Tensile strength (MPa) = 1.5</p> <p><u>Complementary data:</u> Porosity: 52% Shore hardness: PH <12 Adherence: up to 2MPa (according to the support condition)</p>
Durability	
Product and company identification/Commercial name/ Applicators	
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Documentation/References	
<p>Leaflet BASF/MEYCO + CD Rom</p>	

